

(This section to be completed by subcontractor requesting document)

J. Lamb / 1034A
Requestor Document Center (is requested to provide the following document)

Date of request 12/8/95 Expected receipt of document 1/8/95

Document number KDD-674 Date of document 11/8/54

Title and author (if document is unnumbered)

(This section to be completed by Document Center)

Date request received 12/12/95

Date submitted to ADC 1/5/96

Date submitted to HSA Coordinator 12/12/95

(This section to be completed by HSA Coordinator)

Date submitted to CICO 1/5/96

Date received from CICO 1/31/96

Date submitted to ChemRisk/Shonka and DOE 2/1/96

(This section to be completed by ChemRisk/Shonka Research Associates, Inc.)

Date document received _____

Signature _____

UNCLASSIFIED

2116
THIS DOCUMENT CONSISTS OF 31 PAGES
No. 1 OF 1 COPIES. SERIES A

DAILY REPORT OF FEED PLANT OPERATIONS

KDD-674
DATE: 11-8-54

K-18347

October 31, 1954

Date

2116
COR 3-1000Feed Plant
K-25

Towers 6.87 tons UF₆ 4.74 Daily av., month to date 97.0 % on-stream
 Scrubber 834 lb. UF₆ 80.0 % on-stream
 F₂ Cells 34.6 av. operable x. 2,800 amps.
 VH-1 4.52 tons UF₄ 95.0 % on-stream
 Trays 3.16 tons UF₄ 95.0 % on-stream
 Total 7.68 tons UF₄ 4.27 Daily av., month to date

Inventory: 3 - 3.52 tons
 4 - 3.57 tons
 6 - 75.22 tons
 A&I - 11.42 tons

There was no significant downtime.

PLANT RECORDS DEPT. CENTRAL FILES
REC. <u>L-83794</u>
FILE _____
X-REF. _____
X-REF. _____

KDD 674 1 A



KDD 674 1 A

Classification changed to UNCLASSIFIED
 (Level and category)

Thomas W. Selby 10/12/94
 ABC or ADD signature (first reviewer) Date
Orloski 10/24/94
 ADD signature (final reviewer) Date
DBB QA 1/18/95

Feed Plant
Paducah

Towers 5.44 tons UF₆ 6.45 Daily av., month to date 62.9 % on-stream
 F₂ Cells 29.89 av. operable 3,996 amps.
 Trays 6.38 tons UF₄ 6.66 Daily av., month to date 66.6 % on-stream

Inventory: 3 - 3.67 tons
 4 - 22.81 tons
 6 - 107.77 tons
 A&I - 37.79 tons

Tower downtime was due to a barrier filter change, low fluorine supply and a tower evacuation valve replacement.

One tray is still down for modification.

This document has been approved for release
 to the public by W. Selby 1/31/96

for AS Quint
 Technical Information Officer
 One Ridge K-25 Site

Date

Carbide and Carboa Chemicals Corporation Operating
 Contractor for the U.S. Atomic Energy Commission.

UNCLASSIFIED

RESTRICTED DATA

This document contains Restricted Data as defined
 in the Atomic Act of 1946. Its Transmittal or the
 disclosure of its contents in any manner to an Un-
 authorized Person is Prohibited.

2

DAILY REPORT OF FEED PLANT OPERATIONS

October 30, 1954

Date

Feed Plant
K-25

Towers 4.86 tons UF_6 4.66 Daily av., month to date 50.0 % on-stream
Scrubber 1,000 lb. UF_6 70.0 % on-stream
 F_2 Cells 34.9 av. operable 2,800 amps.
VH-1 4.64 tons UF_4 90.0 % on-stream
Trays 2.43 tons UF_4 67.0 % on-stream
Total 7.07 tons UF_4 4.15 Daily av., month to date

Inventory: 3 - 11.23 tons
4 - 3.11 tons
6 - 68.35 tons
A&I - 10.65 tons

Tower downtime was due to supplying fluorine to K-33 for stabilization.

Trays were down to repair drive and drive base.

VH-1 downtime was due to high current on the vertical drive.

Feed Plant
Paducah

Towers 3.93 tons UF_6 6.49 Daily av., month to date 62.26 % on-stream
 F_2 Cells 34.60 av. operable 3,348 amps.
Trays 6.99 tons UF_4 6.67 Daily av., month to date 64.69 % on-stream

Inventory: 3 - 10.05 tons
4 - 20.08 tons
6 - 112.55 tons
A&I - 38.05 tons

Tray downtime was due to low hydrogen supply and modification.

Tower downtime was due to barrier filter change, low fluorine supply and to replace powder feed bellows.

DAILY REPORT OF FEED PLANT OPERATIONS

October 29, 1954

Date

Feed Plant
K-25

Towers 4.06 tons UF₆ 4.65 Daily av., month to date 100.0 % on-stream
Scrubber 1,146 lb. UF₆ 100.0 % on-stream
F₂ Cells 54.6 av. operable 1,900 amps.
VH-1 3.75 tons UF₄ 99.0 % on-stream
Trays 1.44 tons UF₄ 40.0 % on-stream
Total 5.19 tons UF₄ 4.05 Daily av., month to date

Inventory: 3 - 16.94 tons
 4 - 1.23 tons
 6 - 65.98 tons
 A&I - 10.73 tons

Trays were down to repair broken drives, drive base and vertical screw.

Towers were on standby.

Feed Plant
Paducah

Towers 6.19 tons UF₆ 6.58 Daily av., month to date 51.02 % on-stream
F₂ Cells 38.07 av. operable 2,700 amps.
Trays 5.92 tons UF₄ 6.65 Daily av., month to date 58.73 % on-stream

Inventory: 3 - 17.00 tons
 4 - 10.78 tons
 6 - 101.15 tons
 A&I - 40.02 tons

Towers were down due to replacement of fluorine inlet bellows, a fluorine shortage, and to locate and repair leaks.

Tray downtime was due to replacement of inlet bellows, hydrogen shortage, and one tray still undergoing modification.

4

DAILY REPORT OF FEED PLANT OPERATIONS

October 28, 1954

Date

Feed Plant

K-25

Towers 4.79 tons UF₆ 4.67 Daily av., month to date 49.0 % on-stream
Scrubber 813 lb. UF₆ 100.0 % on-stream
F₂ Cells 34.9 av. operable 2,250 amps.
VH-1 2.25 tons UF₄ 80.0 % on-stream
Trays 1.34 tons UF₄ 25.0 % on-stream
Total 3.59 tons UF₄ 4.01 Daily av., month to date

Inventory: 3 - 18.84 tons
4 - 0
6 - 69.31 tons
A&I - 10.73 tons

VH-1 was off to unplug the outlet gas line.

The principal tower downtime was due to lack of UF₄

Trays were down to repair a shaking cycle timer circuit, to repair a drive and base, and to unplug the outlet line.

Feed Plant

Paducah

Towers 6.53 tons UF₆ 6.60 Daily av., month to date 48.0 % on-stream
F₂ Cells 36.67 av. operable 3,550 amps.
Trays 6.24 tons UF₄ 6.69 Daily av., month to date 66.6 % on-stream

Inventory: 3 - 22.95 tons
4 - 7.83 tons
6 - 106.58 tons
A&I - 39.76 tons

"C" tray down for modification.

Tower downtime was due to the shutdown of the fluorine plant when the inlet line to the fluorine HF condenser caught fire.

DAILY REPORT OF FEED PLANT OPERATIONS

October 27, 1954

Date

Feed Plant
K-25

Towers 7.17 tons UF₆ 4.67 Daily av., month to date 97.0 % on-stream
Scrubber 1,300 lb. UF₆ 80.0 % on-stream
F₂ Cells 34.0 av. operable 3,000 amps.
VH-1 2.89 tons UF₄ 92.0 % on-stream
Trays 1.70 tons UF₄ 25.0 % on-stream
Total 4.59 tons UF₄ 4.03 Daily av., month to date

Inventory: 3 - 25.23 tons
 4 - 0.93 ton
 6 - 61.18 tons
 A&I - 10.22 tons

Tray downtime was due to lack of UO₂ and in order to make drive and base repairs.

Feed Plant
Paducah

Towers 5.26 tons UF₆ 6.44 Daily av., month to date 66.66 % on-stream
F₂ Cells 35.02 av. operable 4,013 amps.
Trays 6.46 tons UF₄ 6.70 Daily av., month to date 62.26 % on-stream

Inventory: 3 - 31.67 tons
 4 - 5.10 tons
 6 - 110.88 tons
 A&I - 37.73 tons

Trays were down to replace gaskets, repair intermediate screw, and for modification of "C" tray.

Towers were down to repair leaks and on standby.

DAILY REPORT OF FEED PLANT OPERATIONS

October 26, 1954

DateFeed Plant
K-25

Towers 7.06 tons UF_6 4.57 Daily av., month to date 58.33 % on-stream
 Scrubber 1,088 lb. UF_6 92.0 % on-stream
 F_2 Cells 30.72 av. operable 3,250 amps.
 VH-1 2.67 tons UF_4 81.20 % on-stream
 Trays 3.54 tons UF_4 63.54 % on-stream
 Total 6.21 tons UF_4 4.01 Daily av., month to date

Inventory: 3 - 29.28 tons
 4 - 4.20 tons
 6 - 68.50 tons
 A&I - 10.00 tons

Tower downtime due to hydrogen leaks and baffle change.
 VH-1 downtime due to high amps and temperature.
 Tray downtime due to B-3 drive and rocker arms being repaired.

Feed Plant
Paducah

Towers 12.8 tons UF_6 6.49 Daily av., month to date 96.7 % on-stream
 F_2 Cells 33.20 av. operable 3,818 amps.
 Trays 2.3 tons UF_4 6.7 Daily av., month to date 23.2 % on-stream

Inventory: 3 - 38.12 tons
 4 - 5.10 tons
 6 - 91.72 tons
 A&I - 46.88 tons

Tray downtime due to HF leaks, drive unit repairs, and lack of UO_2 .
 "A" and "B" trays were started at 10:40 a.m.

Tower downtime due to plugging.

Received shipment No. 234 containing 32 tons of U as UO_3 .

7

DAILY REPORT OF FEED PLANT OPERATIONS

October 25, 1954

Date

Feed Plant
K-25

Towers 6.97 tons UF₆ 4.47 Daily av., month to date 90.6 % on-stream
Scrubber 1.382 lb. UF₆ 100.0 % on-stream
F₂ Cells 32.5 av. operable 3,400 amps.
VH-1 2.97 tons UF₄ 85.4 % on-stream
Trays 2.95 tons UF₄ 56.25 % on-stream
Total 5.92 tons UF₄ 3.92 Daily av., month to date

Inventory: 3 - 34.02 tons
4 - 4.50 tons
6 - 66.67 tons
A&I - 8.55 tons

Tower downtime was necessary to replace tower outlet block valve.

Tray downtime was due to cracks at drive base.

VH-1 feed was off to reduce load on main drive unit.

Feed Plant
Paducah

Towers 4.3 tons UF₆ 6.23 Daily av., month to date 85.9 % on-stream
F₂ Cells 33.3 av. operable 3,630 amps.
Trays 0 tons UF₄ 6.9 Daily av., month to date 0 % on-stream

Inventory: 3 - 7.01 tons
4 - 9.32 tons
6 - 95.9 tons
A&I - 45.7 tons

Tower downtime was due to restriction through secondary cold traps and tower plugging.

7

DAILY REPORT OF FEED PLANT OPERATIONS

October 24, 1954

Date

Feed Plant
K-25

Towers 7.81 tons UF₆ 4.36 Daily av., month to date 91.0 % on-stream
Scrubber 781 lb. UF₆ 94.75 % on-stream
F₂ Cells 32.04 av. operable 3,500 amps.
VH-1 1.31 tons UF₄ 60.0 % on-stream
Trays 2.14 tons UF₄ 50.0 % on-stream
Total 3.50 tons UF₄ 3.83 Daily av., month to date

Inventory: 3 - 39.30 tons
4 - 5.50 tons
6 - 59.70 tons
A&I - 8.55 tons

Tower downtime due to leaks.

Tray downtime due to lack of UO₂.

Scrubber downtime due to replacement of gage glass on feed hopper.

VH-1 downtime due to high amps and inspection.

Feed Plant
Paducah

Towers 4.43 tons UF₆ 6.32 Daily av., month to date 89.9 % on-stream
F₂ Cells 34.10 av. operable 3,650 amps.
Trays 0 tons UF₄ 7.19 Daily av., month to date 0 % on-stream

Inventory: 3 - 7.01 tons
4 - 13.19 tons
6 - 88.94 tons
A&I - 48.93 tons

Tower downtime due to replacement of "A" tower, fire in hopper, replacement of water control valve, and standby.

Tray downtime due to lack of UO₃.

9

DAILY REPORT OF FEED PLANT OPERATIONS

October 23, 1954

Date

Feed Plant
K-25

Towers 8.57 tons UF_6 4.21 Daily av., month to date 100.0 % on-stream
Scrubber 969 lb. UF_6 100.0 % on-stream
 F_2 Cells 31.25 av. operable 3,500 amps.
VH-1 2.00 tons UF_4 87.25 % on-stream
Trays 1.61 tons UF_4 40.00 % on-stream
Total 3.61 tons UF_4 3.85 Daily av., month to date

Inventory: 3 - 47.87 tons
 4 - 11.00 tons
 6 - 51.89 tons
 A&I - 8.61 tons

Shipment No. 234 containing approximately 34 tons of U as UO_3 was received.

Tray downtime was due to lack of UO_2 .

VH-1 downtime was due to jammed feed screw.

Feed Plant
Paducah

Towers 5.38 tons UF_6 6.40 Daily av., month to date 91.3 % on-stream
 F_2 Cells 33.9 av. operable 3,730 amps.
Trays 0 tons UF_4 7.52 Daily av., month to date 0 % on-stream

Inventory: 3 - 7.01 tons
 4 - 17.46 tons
 6 - 104.7 tons
 A&I - 46.25 tons

Tower downtime was due to plugging.

Tray downtime was due to lack of UO_3 .

DAILY REPORT OF FEED PLANT OPERATIONS

October 22, 1954
Date

Feed Plant
K-25

Towers 7.16 tons UF₆ 4.00 Daily av., month to date 95.8 % on-stream
Scrubber 351 lb. UF₆ 12.5 % on-stream
F₂ Cells 32.0 av. operable 3,100 amps.
VH-1 2.78 tons UF₄ 98.0 % on-stream
Trays 1.78 tons UF₄ 62.5 % on-stream
Total 4.56 tons UF₄ 3.86 Daily av., month to date

Inventory: 3 - 17.07 tons
4 - 7.50 tons
6 - 41.88 tons
A&I - 8.17 tons

Tray downtime due to no UO₂.

F₂ scrubber downtime due to installing new feed screw and barrel.

Two Paducah trucks arrived this morning at 2:30 a.m. with 33,966 pounds of UF₄.

Feed Plant
Paducah

Towers 7.90 tons UF₆ 6.47 Daily av., month to date 98.6 % on-stream
F₂ Cells 34.20 av. operable 3,966 amps.
Trays 0 tons UF₄ 7.88 Daily av., month to date 0 % on-stream

Inventory: 3 - 7.01 tons
4 - 23.06 tons
6 - 103.7 tons
A&I - 51.63 tons

Tower downtime due to unplugging, baffle change, and standby.

All trays still down for lack of UO₃ and maintenance.

DAILY REPORT OF FEED PLANT OPERATIONS

October 21, 1954

Date

Feed Plant
K-25

Towers 6.64 tons UF₆ 3.85 Daily av., month to date 88.0 % on-stream
Scrubber 611 lb. UF₆ 100.0 % on-stream
F₂ Cells 33.0 av. operable 2,800 amps.
VH-1 3.58 tons UF₄ 87.5 % on-stream
Trays 2.66 tons UF₄ 88.2 % on-stream
Total 6.24 tons UF₄ 3.83 Daily av., month to date

Inventory: 3 - 19.94 tons
 4 - 1.00 ton
 6 - 35.72 tons
 A&I - 8.17 tons

Tray downtime was due to jammed screw and lack of UO₂.

VH-1 downtime was due to slight binding of vertical drive shaft.

The towers were down to repair various leaks in the system.

A Paducah truck arrived this morning with 20,920 pounds of UF₄.

Feed Plant
Paducah

Towers 5.1 tons UF₆ 6.38 Daily av., month to date 81.1 % on-stream
F₂ Cells 34.0 av. operable 3,576 amps.
Trays 0 tons UF₄ 8.28 Daily av., month to date 0 % on-stream.

Inventory: 3 - 7.01 tons
 4 - 44.00 tons
 6 - 92.06 tons
 A&I - 53.27 tons

All trays were still down for maintenance.

Towers were down while installing a recycle valve around the fluorine blowers, to repair a hole in a tower, and to unplug a tower.

12

DAILY REPORT OF FEED PLANT OPERATIONS

October 20, 1954

Date

Feed Plant
K-25

Towers 5.46 tons UF₆ 3.72 Daily av., month to date 80.0 % on-stream
Scrubber 774 lb. UF₆ 92.0 % on-stream
F₂ Cells 32.0 av. operable 2,900 amps.
VH-1 3.65 tons UF₄ 94.0 % on-stream
Trays 4.18 tons UF₄ 82.0 % on-stream
Total 7.83 tons UF₄ 3.79 Daily av., month to date

Inventory: 3 - 28.00 tons
4 - 1.50 tons
6 - 34.30 tons
A&I - 6.74 tons

Tower and VH-1 downtime due to changing UF₆ pumps

Tray downtime due to leaks and plugging.

Feed Plant
Paducah

Towers 6.0 tons UF₆ 6.44 Daily av., month to date 91.3 % on-stream
F₂ Cells 35.30 av. operable 3,925 amps.
Trays 0 tons UF₄ 8.71 Daily av., month to date 0 % on-stream

Inventory: 3 - 7.01 tons
4 - 59.26 tons
6 - 84.12 tons
A&I - 54.29 tons

Tray downtime due to low UO₃ inventory and maintenance.

Tower downtime due to leaks and plugging.

23

DAILY REPORT OF FEED PLANT OPERATIONS

October 19, 1954

Date

Feed Plant
K-25

Towers 5.12 tons UF_6 3.62 Daily av., month to date 5.0 % on-stream
Scrubber 807 lb. UF_6 100.0 % on-stream
 F_2 Cells 33.3 av. operable 2,700 amps.
VH-1 2.47 tons UF_4 60.0 % on-stream
Trays 0.11 tons UF_4 15.0 % on-stream
Total 2.58 tons UF_4 3.57 Daily av., month to date

Inventory: 3 - 33.48 tons
4 - 1.32 tons
6 - 30.31 tons
A&I - 6.74 tons

Received shipment No. 233 containing 34.9 tons of U as UO_3 .

Tray downtime due to low UO_3 inventory.

Feed Plant
Paducah

Towers 7.10 tons UF_6 6.41 Daily av., month to date 65.08 % on-stream
 F_2 Cells 35.59 av. operable 3,953 amps.
Trays 0 tons UF_4 9.19 Daily av., month to date 0 % on-stream

Inventory: 3 - 7.01 tons
4 - 67.03 tons
6 - 62.28 tons
A&I - 56.04 tons

Tray downtime due to low UO_3 inventory.

Tower downtime due to plugs and leaks.

14

DAILY REPORT OF FEED PLANT OPERATIONS

October 18, 1954

Date

Feed Plant
K-25

Towers 5.60 tons UF₆ 3.33 Daily av., month to date 98.5 % on-stream
Scrubber 552 lb. UF₆ 100.0 % on-stream
F₂ Cells 33.5 av. operable 2,700 amps.
VH-1 3.83 tons UF₄ 100.0 % on-stream
Trays 2.19 tons UF₄ 42.5 % on-stream
Total 6.02 tons UF₄ 3.63 Daily av., month to date

Inventory: 3 - 12.0 tons
 4 - 2.5 tons
 6 - 36.13 tons
 A&I - 7.0 tons

Tray downtime for standby.

Feed Plant
Paducah

Towers 7.64 tons UF₆ 6.37 Daily av., month to date 64.93 % on-stream
F₂ Cells 34.97 av. operable 3,865 amps.
Trays 9.52 tons UF₄ 9.73 Daily av., month to date 99.30 % on-stream

Inventory: 3 - 6.60 tons
 4 - 73.29 tons
 6 - 80.46 tons
 A&I - 51.77 tons

Tower downtime due to leaks.

15

DAILY REPORT OF FEED PLANT OPERATIONS

October 17, 1954

Date

Feed Plant
K-25

Towers 5.56 tons UF₆ 5.40 Daily av., month to date 8.5 % on-stream
Scrubber 538 lb. UF₆ 98.5 % on-stream
F₂ Cells 51.9 av. operable 2,600 amps.
VH-1 4.04 tons UF₄ 93.0 % on-stream
Trays 2.80 tons UF₄ 74.0 % on-stream
Total 5.84 tons UF₄ 5.48 Daily av., month to date

Inventory: 3 - 13.02 tons
 4 - 2.49 tons
 6 - 30.53 tons
 A&I - 7.00 tons

Tower downtime was to replace baffles, jets, and a feed hopper vibrator.

Tray downtime was due to jammed feed screws.

VH-1 was down to repair heat recorder-controller motor.

Feed Plant
Paducah

Towers 5.72 tons UF₆ 6.29 Daily av., month to date 53.0 % on-stream
F₂ Cells 32.0 av. operable 3,977 amps.
Trays 9.62 tons UF₄ 9.74 Daily av., month to date 98.6 % on-stream

Inventory: 3 - 16.12 tons
 4 - 72.01 tons
 6 - 66.20 tons
 A&I - 50.52 tons

Tower downtime was for leaks and standby.

Tray downtime was to repair feed screw drive chain.

DAILY REPORT OF FEED PLANT OPERATIONS

October 15, 1954

DateFeed Plant
K-25

Towers 4.84 tons UF₆ 3.26 Daily av., month to date 22.1 % on-stream
 Scrubber 1,549 lb. UF₆ 45.0 % on-stream
 F₂ Cells 31.2 av. operable 3,600 amps.
 VH-1 3.90 tons UF₄ 97.7 % on-stream
 Trays 2.64 tons UF₄ 73.3 % on-stream
 Total 6.54 tons UF₄ 3.26 Daily av., month to date

Inventory: 3 - 18.16 tons
 4 - 1.02 tons
 6 - 24.97 tons
 A&I - 6.47 tons

Tower downtime was to repair leaks, replace sample line, and to replace feed baffle.

Tray downtime was to repair torsion bars.

VH-1 was shut down for 6-1/2 hours this morning to repair a burned motor on the Bristol heat recorder-controller.

Feed Plant
Paducah

Towers 7.08 tons UF₆ 6.32 Daily av., month to date 66.0 % on-stream
 F₂ Cells 33.1 av. operable 3,986 amps.
 Trays 9.36 tons UF₄ 2.74 Daily av., month to date 100 % on-stream

Inventory: 3 - 25.97 tons
 4 - 69.80 tons
 6 - 80.97 tons
 A&I - 47.33 tons

Tower downtime was due to plugs and standby.

DAILY REPORT OF FEED PLANT OPERATIONS

October 15, 1954

DateFeed Plant
K-25

Towers 4.15 tons UF₆ 3.15 Daily av., month to date 5.1 % on-stream
 Scrubber 667 lb. UF₆ 100.0 % on-stream
 F₂ Cells 30.5 av. operable 2,300 amps.
 VH-1 1.05 tons UF₄ 45.8 % on-stream
 Trays 3.13 tons UF₄ 97.0 % on-stream
 Total 4.18 tons UF₄ 3.03 Daily av., month to date

Inventory: 3 - 23.02 tons
 4 - 0.31 ton
 6 - 25.00 tons
 A&I - 7.08 tons

VH-1 returned to production after major rebuilding.

There was no major downtime on the towers or trays.

Feed Plant
Paducah

Towers 6.70 tons UF₆ 6.24 Daily av., month to date 65.75 % on-stream
 F₂ Cells 32.93 av. operable 3,946 amps.
 Trays 10.16 tons UF₄ 9.77 Daily av., month to date 100.0 % on-stream

Inventory: 3 - 35.71 tons
 4 - 67.64 tons
 6 - 65.60 tons
 A&I - 49.02 tons

Shipment No. 232 was received containing 34 tons of U as UO₃.

Tower downtime due to plugs and leaks.

DAILY REPORT OF FEED PLANT OPERATIONS

October 14, 1954

DateFeed Plant
K-25

Towers 5.67 tons UF₆ 3.08 Daily av., month to date 92.7 % on-stream
 Scrubber 577 lb. UF₆ 100.0 % on-stream
 F₂ Cells 29.5 av. operable 1,950 amps.
 VH-1 0 tons UF₄ 0 % on-stream
 Trays 4.14 tons UF₄ 100.0 % on-stream
 Total 4.14 tons UF₄ 2.94 Daily av., month to date

Inventory: 3 - 25.04 tons
 4 - 0.31 ton
 6 - 41.03 tons
 A&I - 6.40 tons

The VH-1 overhaul has been completed except for some insulation which can be added while operating. It is charged with oxide, heated, and ready to start at 8:00 a.m.

Feed Plant
Paducah

Towers 7.81 tons UF₆ 6.23 Daily av., month to date 65.97 % on-stream
 F₂ Cells 33.9 av. operable 3,955 amps.
 Trays 10.13 tons UF₄ 9.74 Daily av., month to date 100.0 % on-stream

Inventory: 3 - 10.45 tons
 4 - 68.83 tons
 6 - 68.70 tons
 A&I - 48.31 tons

Tower downtime due to plugs and standby.

19

DAILY REPORT OF FEED PLANT OPERATIONS

October 13, 1954

Date

Feed Plant
K-25

Towers 3.52 tons UF₆ 3.03 Daily av., month to date 91.6 % on-stream
Scrubber 2,205 lb. UF₆ 100.0 % on-stream
F₂ Cells 30.1 av. operable 1,800 amps.
VH-1 0 tons UF₄ 0 % on-stream
Trays 3.78 tons UF₄ 100.0 % on-stream
Total 3.78 tons UF₄ 2.84 Daily av., month to date

Inventory: 3 - 27.59 tons
4 - 0.31 ton
6 - 38.86 tons
A&I - 6.50 tons

There was no significant off time.

Feed Plant
Paducah

Towers 8.15 tons UF₆ 6.10 Daily av., month to date 70.25 % on-stream
F₂ Cells 36.47 av. operable 3,900 amps.
Trays 10.64 tons UF₄ 9.70 Daily av., month to date 98.96 % on-stream

Inventory: 3 - 21.15 tons
4 - 63.06 tons
6 - 82.62 tons
A&I - 42.25 tons

There was no significant tray off time.

Tower downtime due to plugs and standby.

DAILY REPORT OF FEED PLANT OPERATIONS

October 12, 1954
Date

Feed Plant
K-25

Towers 3.47 tons UF_6 2.99 Daily av., month to date 91.47 % on-stream
 Scrubber 780 lb. UF_6 77.91 % on-stream
 F_2 Cells 30.34 av. operable 1,800 amps.
 VH-1 0 tons UF_4 0 % on-stream
 Trays 3.41 tons UF_4 97.51 % on-stream
 Total 3.41 tons UF_4 2.75 Daily av., month to date

Inventory: 3 - 30.53 tons
 4 - 0
 6 - 40.27 tons
 A&I - 6.70 tons

Tower downtime due to lack of UF_4 .

Tray downtime negligible.

Feed Plant
Paducah

Towers 7.3 tons UF_6 5.92 Daily av., month to date 88.19 % on-stream
 F_2 Cells 39.12 av. operable 3,832 amps.
 Trays 10.4 tons UF_4 9.62 Daily av., month to date 100.0 % on-stream

Inventory: 3 - 31.30 tons
 4 - 61.31 tons
 6 - 92.34 tons
 A&I - 46.17 tons

Received shipment No. 231 containing 34 tons of U as UO_3 .

Tower downtime due to tower plugs.

DAILY REPORT OF FEED PLANT OPERATIONS

October 11, 1954

Date

Feed Plant
K-25

Towers 3.66 tons UF₆ 2.94 Daily av., month to date 96.87 % on-stream
Scrubber 406.1 lb. UF₆ 100.0 % on-stream
F₂ Cells 30.33 av. operable 2,000 amps.
VH-1 0 tons UF₄ 0 % on-stream
Trays 2.70 tons UF₄ 98.60 % on-stream
Total 2.70 tons UF₄ 2.68 Daily av., month to date

Inventory: 3 - 28.22 tons
4 - 0.54 ton
6 - 57.14 tons
A&I - 8.08 tons

No UO₃ received.

Tray and tower downtime negligible.

Feed Plant
Paducah

Towers 6.20 tons UF₆ 5.77 Daily av., month to date 77.65 % on-stream
F₂ Cells 39.03 av. operable 3,693 amps.
Trays 10.20 tons UF₄ 9.54 Daily av., month to date 94.96 % on-stream

Inventory: 3 - 17.44 tons
4 - 59.26 tons
6 - 77.92 tons
A&I - 45.64 tons

No UO₃ received.

No appreciable tray downtime.

Tower downtime due to plugged tower outlet lines.

DAILY REPORT OF FEED PLANT OPERATIONS

October 10, 1954

Date

Feed Plant
K-25

Towers 1.49 tons UF₆ 2.86 Daily av., month to date 48.0 % on-stream
Scrubber 250 lb. UF₆ 45.8 % on-stream
F₂ Cells 30 av. operable 2,200 amps.
VH-1 0 tons UF₄ 0 % on-stream
Trays 2.67 tons UF₄ 97.9 % on-stream
Total 2.67 tons UF₄ 2.68 Daily av., month to date

Inventory: 3 - 34.21 tons
 4 - 1.50 tons
 6 - 53.50 tons
 A&I - 7.85 tons

Tower downtime due to feeding fluorine to K-33.

Tray downtime was negligible.

No UO₃ received.

Feed Plant
Paducah

Towers 5.72 tons UF₆ 5.73 Daily av., month to date 58.81 % on-stream
F₂ Cells 37.83 av. operable 37.82 amps.
Trays 9.09 tons UF₄ 9.47 Daily av., month to date 84.38 % on-stream

Inventory: 3 - 27.58 tons
 4 - 56.98 tons
 6 - 77.01 tons
 A&I - 45.05 tons

No UO₃ received.

Tray downtime due to jammed intermediate screw.

tower downtime due to jammed feed screw and plugged towers.

DAILY REPORT OF FEED PLANT OPERATIONS

October 9, 1954

Date

Feed Plant
K-25

Towers 3.47 tons UF_6 3.03 Daily av., month to date 96.0 % on-stream
 Scrubber 1,354 lb. UF_6 96.0 % on-stream
 F_2 Cells 31.9 av. operable 1,800 amps.
 VH-1 0 tons UF_4 0 % on-stream
 Trays 1.96 tons UF_4 77.0 % on-stream
 Total 1.96 tons UF_4 2,68 Daily av., month to date

Inventory: 3 - 38.50 tons
 4 - 0.60 ton
 6 - 51.99 tons
 A&I - 8.35 tons

Received shipment No. 229 containing 32.9 tons of U as UO_3 .

Tower downtime negligible.

Tray downtime was due to drive repairs.

Feed Plant
Paducah

Towers 6.70 tons UF_6 5.73 Daily av., month to date 59.69 % on-stream
 F_2 Cells 33.90 av. operable 3,690 amps.
 Trays 8.90 tons UF_4 9.62 Daily av., month to date 82.53 % on-stream

Inventory: 3 - 36.64 tons
 4 - 55.39 tons
 6 - 73.28 tons
 A&I - 43.97 tons

Received shipment No. 230 containing 34 tons of U as UO_3 .

Tower downtime was due to plugging and feed screw repairs.

Tray downtime was due to replacing intermediate screw barrel and broken anchor bolts.

DAILY REPORT OF FEED PLANT OPERATIONS

October 8, 1954

Date

Feed Plant
K-25

Towers 4.13 tons UF₆ 2.97 Daily av., month to date 95.0 % on-stream
 Scrubber 1916 lb. UF₆ 90.0 % on-stream
 F₂ Cells 30.8 av. operable 2,200 amps.
 VH-1 0 tons UF₄ 0 % on-stream
 Trays 4.16 tons UF₄ 100.0 % on-stream
 Total 4.16 tons UF₄ 2.78 Daily av., month to date

Inventory: 3 - 2.83 tons
 4 - 1.38 tons
 6 - 48.51 tons
 A&I - 8.58 tons

No appreciable downtime.

Feed Plant
Paducah

Towers 5.34 tons UF₆ 5.59 Daily av., month to date 54.94 % on-stream
 F₂ Cells 31.68 av. operable 3,473 amps.
 Trays 9.80 tons UF₄ 9.60 Daily av., month to date 98.15 % on-stream

Inventory: 3 - 7.68 tons
 4 - 5.84 tons
 6 - 74.37 tons
 A&I - 42.84 tons

Tower downtime was due to hot fluorine header.

25

DAILY REPORT OF FEED PLANT OPERATIONS

October 7, 1954

Date

Feed Plant
K-25

Towers 1.35 tons UF_6 2.78 Daily av., month to date 37.5 % on-stream
Scrubber 630 lb. UF_6 50.0 % on-stream
 F_2 Cells 31.3 av. operable 2,000 amps.
VH-1 0 tons UF_4 0 % on-stream
Trays 2.85 tons UF_4 64.0 % on-stream
Total 2.85 tons UF_4 2.55 Daily av., month to date

Inventory: 3 - 5.34 tons
4 - 3.53 tons
6 - 44.37 tons
A&I - 8.66 tons

Tower downtime due to feeding F_2 to K-33 and plugging.

Tray downtime due to torsion bar replacement on "B" tray.

Feed Plant
Paducah

Towers 7.94 tons UF_6 5.63 Daily av., month to date 60.43 % on-stream
 F_2 Cells 28.75 av. operable 3,881 amps.
Trays 9.71 tons UF_4 9.37 Daily av., month to date 96.18 % on-stream

Inventory: 3 - 17.46 tons
4 - 50.07 tons
6 - 70.94 tons
A&I - 42.09 tons

Tray downtime due to full hoppers.

Tower downtime due to cleaning H_2 and F_2 headers.

DAILY REPORT OF FEED PLANT OPERATIONSOctober 6, 1954
DateFeed Plant
K-25

Towers 2.14 tons UF₆ 3.06 Daily av., month to date 64.6 % on-stream
 Scrubber 1,450 lb. UF₆ 70.0 % on-stream
 F₂ Cells 24 av. operable 1,750 amps.
 VH-1 0 tons UF₄ 0 % on-stream
 Trays 1.71 tons UF₄ 47.0 % on-stream
 Total 1.71 tons UF₄ 2.49 Daily av., month to date

Inventory: 3 - 6.78 tons
 4 - 2.33 tons
 6 - 43.02 tons
 A&I - 8.92 tons

Tower downtime was due to fluorine plant being down for fluorine and hydrogen line cleaning.

Tray downtime was due to torsion bar repairs on "B" tray.

Feed Plant
Paducah

Towers 0.74 tons UF₆ 5.17 Daily av., month to date 32.88 % on-stream
 F₂ Cells 23.83 av. operable 3,447 amps.
 Trays 9.12 tons UF₄ 9.55 Daily av., month to date 84.14 % on-stream

Inventory: 3 - 27.15 tons
 4 - 39.80 tons
 6 - 82.90 tons
 A&I - 78.29 tons

Tower downtime due to cleaning of fluorine and hydrogen lines.

Tray downtime was due to repairing HF leaks.

Increase in ash and intermediates inventory caused by locating several drums of pulverized ash that had not previously been carried.

DAILY REPORT OF FEED PLANT OPERATIONS

October 5, 1954

DateFeed Plant
K-25

Towers 1.9 tons UF₆ 3.3 Daily av., month to date 45.0 % on-stream
 Scrubber 450 lb. UF₆ 55.0 % on-stream
 F₂ Cells 14 av. operable 2,000 amps.
 VH-1 0 tons UF₄ 0 % on-stream
 Trays 1.71 tons UF₄ 40.0 % on-stream
 Total 1.71 tons UF₄ 2.69 Daily av., month to date

Inventory: 3 - 7.82 tons
 4 - 2.95 tons
 6 - 40.88 tons
 A&I - 9.52 tons

Tower and scrubber downtime was for the purpose of cleaning out the fluorine and hydrogen system lines.

Tray downtime was to clean outlet headers on the hydrogen system and to repair torsion bars.

Feed Plant
Paducah

Towers 5.35 tons UF₆ 6.28 Daily av., month to date 54.16 % on-stream
 F₂ Cells 29.45 av. operable 3,990 amps.
 Trays 10.21 tons UF₄ 9.65 Daily av., month to date 100.0 % on-stream

Inventory: 3 - 36.25 tons
 4 - 37.41 tons
 6 - 127.80 tons
 A&I - 36.90 tons

Shipment No. 228 containing 34.61 tons of U as UO₃ was received.

Tower downtime was due to insufficient fluorine and plugged baffle assembly.

DAILY REPORT OF FEED PLANT OPERATIONS

October 4, 1954

DateFeed Plant
K-25

Towers 3.81 tons UF₆ 3.76 Daily av., month to date 98.0 % on-stream
 Scrubber 800 lb. UF₆ 100.0 % on-stream
 F₂ Cells 32 av. operable 2,000 amps.
 VH-1 0 tons UF₄ 0 % on-stream
 Trays 2.26 tons UF₄ 80.0 % on-stream
 Total 2.26 tons UF₄ 3.02 Daily av., month to date

Inventory: 3 - 8.07 tons
 4 - 4.03 tons
 6 - 40.46 tons
 A&I - 10.55 tons

Tray downtime was to remove plugs and to repair a drive base.

Tower downtime was for the purpose of replacing a baffle and jet assembly.

Feed Plant
Paducah

Towers 8.76 tons UF₆ 6.59 Daily av., month to date 64.12 % on-stream
 F₂ Cells 37.01 av. operable 3,643 amps.
 Trays 8.82 tons UF₄ 946 Daily av., month to date 88.81 % on-stream

Inventory: 3 - 11.49 tons
 4 - 33.86 tons
 6 - 108.40 tons
 A&I - 35.90 tons

Tray downtime was to repair leaks.

Tower downtime was for the purpose of replacing barrier filters and due to insufficient fluorine.

DAILY REPORT OF FEED PLANT OPERATIONS

October 3, 1954

Date

Feed Plant
K-25

Towers 3.76 tons UF₆ 3.74 Daily av., month to date 28.0 % on-stream
Scrubber 500 lb. UF₆ 100.0 % on-stream
F₂ Cells 31.7 av. operable 2,100 amps.
VH-1 0 tons UF₄ 0 % on-stream
Trays 2.03 tons UF₄ 100.0 % on-stream
Total 2.03 tons UF₄ 3.41 Daily av., month to date

Inventory: 3 - 8.99 tons
4 - 5.76 tons
6 - 36.65 tons
A&I - 11.29 tons

The low UF₄ production was the result of feeding intermediates to the trays.

Tower downtime was due to plugs.

Tray downtime was for the purpose of lubricating the drive on the 30-foot tray.

Feed Plant
Paducah

Towers 2.92 tons UF₆ 5.50 Daily av., month to date 67.91 % on-stream
F₂ Cells 37.8 av. operable 3,529 amps.
Trays 9.75 tons UF₄ 9.78 Daily av., month to date 100 % on-stream

Inventory: 3 - 19.52 tons
4 - 33.20 tons
6 - 106.46 tons
A&I - 35.49 tons

Tower downtime was to unplug a tower and to replace a baffle assembly.

DAILY REPORT OF FEED PLANT OPERATIONS

October 2, 1954

Date

Feed Plant
K-25

Towers 3.83 tons UF₆ 3.83 Daily av., month to date 98.0 % on-stream
Scrubber 900 lb. UF₆ 100.0 % on-stream
F₂ Cells 32 av. operable 2,200 amps.
VH-1 0 tons UF₄ 0 % on-stream
Trays 1.99 tons UF₄ 80.0 % on-stream
Total 1.99 tons UF₄ 1.99 Daily av., month to date

Inventory: 3 - 10.88 tons
4 - 6.33 tons
6 - 32.89 tons
A&I - 12.10 tons

VH-1 continues to be down for overhaul.

Tray downtime was to repair A-3 drive.

Feed Plant
Paducah

Towers 8.09 tons UF₆ 8.99 Daily av., month to date 75.33 % on-stream
F₂ Cells 42.56 av. operable 3,707 amps.
Trays 9.82 tons UF₄ 9.82 Daily av., month to date 98.37 % on-stream

Inventory: 3 - 28.91 tons
4 - 32.42 tons
6 - 114.76 tons
A&I - 33.67 tons

Received shipment No. 227 containing 33.31 tons of UO₃

Tray downtime due to a jammed UO₂ screw.

Tower downtime due to plugs, gasket replacements, and insufficient F₂.

31

REF ID: A61122

DAILY REPORT OF FEED PLANT OPERATIONS

October 1, 1954
Date

Feed Plant
K-25

Towers 4.18 tons UF₆ 3.73 Daily av., month to date 100.0 % on-stream
Scrubber 500 lb. UF₆ 50.0 % on-stream
F₂ Cells 31.8 av. operable 2,300 amps.
VH-1 0 tons UF₄ 0 % on-stream
Trays 2.74 tons UF₄ 100.0 % on-stream
Total 2.74 tons UF₄ 4.10 Daily av., month to date

Inventory: 3 - 11.75 tons
4 - 6.70 tons
6 - 32.13 tons
A&I - 14.15 tons

VH-1 downtime due to scheduled overhaul.

F₂ scrubber downtime to replace feed screw.

Tray downtime to repair drive on 30-foot tray.

Feed Plant
Paducah

Towers 7.09 tons UF₆ 5.79 Daily av., month to date 67.41 % on-stream
F₂ Cells 45.33 av. operable 3,263 amps.
Trays 5.76 tons UF₄ 7.83 Daily av., month to date 60.63 % on-stream

Inventory: 3 - 5.46 tons
4 - 32.40 tons
6 - 101.78 tons
A&I - 33.08 tons

Tower downtime due to low F₂, plugged baffle assembly, replace powder bellows, and change ash received.

Tray downtime to replace HF valves on Adams filter, clean partial condenser, repair HF superheater heaters, and sample UO₂ hopper for inventory.

REF ID: A61122